M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. I^st & final bill 169301

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... KRIDL .....

Date of commencement of work..... 24-02-18 .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work :- Providing drinking water facilities in Sharadhambanagara and Surrandy area in ward-16 Jalahalli 1) EE/RRND/No.NO/000085/2017-18 d:24-02-18 2) Job NO:- 016-17-000035 3) CE/RRN/TS/491/2017-18 Dt. 20.02-2018 4) EE/RRN/AS/135/2017-18 Dt. 20.02-2018						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Earth work in surface excavation in hard soil for levelling and lowering the ground mechanically (other than foundation of buildings, culverts, road cutting and trenches of pipe lines and cables)						
	Qty as per this I.P.C.	1944.00					
	@ 358.85					Rs. 510970.00	
(2)	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width.						
	Qty as per this I.P.C =	843.89					
	@ 332.95					Rs. 280998.50	

M. A. R. 57 (Rule 116) No. D

Measurement Book

169302

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(3)	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc.,						
	Qty as per this I.P.C =	53.30					
	@ 714.20					Rs. 38067.00	
(4)	Cutting of road surface for pipeline trenches and disposing of excavated stuff as directed including barricading, danger lighting etc.,						
	Qty as per this I.P.C =	123.86					
	@ 400.04					Rs. 49749.00	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	⑤ Providing and fixing chorinated poly vinyl chloride (CPVC) Pipes conforming to IS 15778 having thermal stability for hot and cold.						
	Qty as per this I.P.C = 3948.00						
	@ 529.47						Rs. 2090348.00
	⑥ Providing and fixing gun metal Wheel Valve conforming to IS specification of approved make as per directions including all lead and lift etc; for 50mm dia						
	Qty as per this I.P.C = 30.00						
	@ 1694.30						Rs. 50829.00

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. 169303

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	⑦ Providing and fixing Chorinated poly vinyl chloride pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC						
	Qty as per this I.P.C = 1036.35						
	@ 252.97						Rs. 262165.00
	⑧ Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non modular bricks						
	Qty as per this I.P.C = 3.73						
	@ 2911.75						Rs. 10858.00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and T&M of equipments Qty as per this I.P.C = 493.50 @ 252.97						Rs. 124841.00
(10)	Refilling available earth around pipe lines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after Qty as per this I.P.C = 592.20 @ 89.42						Rs. 52955.00

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Measurement Book

Serial No. .....

169304

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	Cost of Haulage Excluding Loading and Unloading MORTH-100/ chapter 1 case-1: Surface Road Qty as per this I.P.C = 2395.95 @ 111.00						Rs. 265950.00
(12)	Geo physical investigation of site for sinking bore No II for supply drinking water to the habitation either by the hand pump, MWS or PWSS by vertical electrical sounding by adopting Qty as per this I.P.C = 4.00 @ 1882.00						Rs. 7528.00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSI & and above 900 CMF and above in all strata including over burden. upto 20m (a) 0 to 50 mtrs Qty as per this I.P.C=					200.00 @ 306.00	Rs. 61200.00
(15)	50.00 to 100.00 mtrs Qty as per this I.P.C=					200.00 @ 445.00	Rs. 80000.00
(16)	100.00 to 150.00 mtrs Qty as per this I.P.C=					200.00 @ 445.00	Rs. 89000.00

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Measurement Book

169305

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(17)	d) 150.00 to 200.00 mtrs Qty as per this I.P.C=					200.00 @ 470.00	Rs. 94000.00
(18)	e) 200.00 to 250.00 mtrs Qty as per this I.P.C=					200.00 @ 544.00	Rs. 108800.00
(19)	f) 250.00 to 300.00 mtrs Qty as per this I.P.C					200.00 @ 622.00	Rs. 124400.00
(20)	300 to 366.00 mtrs Qty as per this I.P.C=					264.00 @ 658.00	Rs. 173712.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(21)	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe grade of steel too 410 of wall thickness 5.4mm thick Confirming to IS 4270:2001						
	Qty as per this I.P.C =					100.00	
	@ 1325.00						RS. 132500.00
(22)	PVC Pipe 10kg/sqm 250 mm outer dia						
	Qty as per this I.P.C =					48.00	
	@ 2600.00						RS. 124800.00
(23)	Supply of 175 mm MS cap						
	Qty as per this I.P.C =					4.00	
	@ 100.00						RS. 400.00

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Measurement Book

169306

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(24)	Supply of 175mm MS collar.						
	Qty as per this I.P.C					16.00	
	@ 150.00						RS. 2400.00
(25)	Supply and Deliver at site brand new CRI / Texmo / Ashland / Luby / Sugana make or any Equlant ISI make in suitable						
	Qty as per this I.P.C =					4.00	
	@ 70600.00						RS. 282400.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(26)	Providing and fixing to wall, ceiling and floor galvanised / mild steel / to be 50mm dia nominal bore with fitting (medium grade weight 4.27 kg/mtr) Qty as per this I.P.C =					1080.00	
	@ 430.00						Rs. 466560.00
(27)	Supplying and drawing 3 core flat PVC sheathed Submersible pump cable manufactured with electrolytic grade copper conductor confirming to table 3 class 5 Qty as per this I.P.C =					2344.00	
	@ 163.50						Rs. 383244.00

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Measurement Book

169307

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(28)	Erection of pumpset including aligning and balancing With all necessary erection materials and labour including supply and erection. Qty as per this I.P.C =					4.00	
	@ 3000.00						Rs. 12000.00
(29)	Supplying and fixing 50mm heavy duty EI (Hose) collars Qty as per this I.P.C =					180.00	
	@ 103.00						Rs. 18540.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(30)	Providing and fixing in position 50mm nominal bore non-return valve vertical type of approved make including cost of all materials Qty as per this I.P.C =					4.00 @ 1496.00	Rs. 5984.00
(31)	Supplying and fixing 50 mm GI union. Qty as per this I.P.C =					8.00 @ 223.70	Rs. 1790.00
(32)	Supplying and fully automatic starter/a unit push button type with suitable wires Qty as per this I.P.C =					4.00 @ 8273.00	Rs. 33092.00

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Measurement Book

169306

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(33)	Erection of single phase pevenior ammeter/including fixing selector switch/current operated earth leakage circuit breaker Qty as per this I.P.C =					4.00 @ 157.00	Rs. 628.00
(34)	Fabricating, supplying and mounting 1200 x 900 x 350 mm MS box made out of 18 SWG suitable for floor/wall mounting Qty as per this I.P.C =					4.00 @ 7866.00	Rs. 31464.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(35)	Supplying and fixing miniature circuit breakers isolators on existing MCB distribution boards using necessary fixing materials						
		Qty as per this I.P.C				4.00 @ 677.00	Rs. 2708.00
(36)	Supplying and running of GI copper strip or grounding connection using necessary fixing material required 600 x 600 comm						
		Qty as per this I.P.C				4.00 @ 784.00	Rs. 3136.00

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Measurement Book

169309

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(37)	Supplying and fixing porcelain fuse channel with cutout on the existing wooden / pannel using necessary nuts bolts and washer etc.)						
		Qty as per this I.P.C =				12.00 @ 120.00	Rs. 1440.00
(38)	Providing and fixing in position brass gate valve with CI wheel of approved quality 50 mm nominal dia						
		Qty as per this I.P.C =				4.00 @ 2052.00	Rs 8208.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(39)	Supplying and laying of L.T. 0.6/1 Cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV						
	Qty as per this I.P.C:				48.00		
	@ 140.40					RS. 6739.00	
(40)	Labour Charges for laying of 1.1 KV class UG cable 6 Sqmm to 16 Sqmm						
	Qty as per this I.P.C				48.00		
	@ 10.80					RS. 518.00	

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Measurement Book

169310

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(41)	Digging of trench of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating in hand soil e.t.c.,						
	Qty as per this I.P.C:				90.00		
	@ 78.00					RS. 6240.00	
(42)	Supplying and fixing class-A-GI Pipe wall thickness not less than 3.25 mm on pole/wall Drain						
	Qty as per this I.P.C:				40.00		
	@ 585.00					RS. 23400.00	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
A3	Supplying and fixing LT cast iron pot heads suitable for 11kV class of cable filled with necessary bitumen/ insolatin compound complete						
	Qty as per this IPC:					4.00	
						@ 280.00	Rs. 1120.00
A4	Earthwork excavation for foundation of buildings culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width.						
	Qty as per this IPC:					63.00	
						@ 305.64	Rs. 19255.00

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Measurement Book

Serial No. 169311

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
A5	Providing and installing at site work P.V.C including cost of pipe and specials and labour including lowering trenches, laying true to line level and Protect linking						
	Qty as per this IPC					140.00	
						@ 112.00	Rs. 15680.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(46)	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth C&fc 1/5/18	Qty as per this I.P.C = 47.24				@ 80.56	RS 3806.00
						Total Amount =	6099040.00
						Dy. KRIDL 11% =	670894.00
							6769934.00
	Certificate:- 1) Work done satisfactory. 2) There is no departmental issues.						

Asst. Engineer
KRIDL, BBMP, RR Nagara

Executive Engineer
KRIDL, BBMP, RR Nagara
Bangalore

1/5/18

1/5/18

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